

Title (en)

CONTACT DEVICE AND ELECTROMAGNETIC RELAY EQUIPPED WITH CONTACT DEVICE

Title (de)

KONTAKTVORRICHTUNG UND ELEKTROMAGNETISCHES RELAIS MIT DER KONTAKTVORRICHTUNG

Title (fr)

DISPOSITIF DE CONTACT ET RELAI ÉLECTROMAGNÉTIQUE COMPRENANT LE DISPOSITIF DE CONTACT

Publication

EP 2871661 A4 20150722 (EN)

Application

EP 13812568 A 20130701

Priority

- JP 2012152663 A 20120706
- JP 2013004068 W 20130701

Abstract (en)

[origin: EP2871661A1] A contact device (10) includes: a contact block (3) including a plurality of fixed terminals (33) on which fixed contacts (32) are formed, and a movable contactor (35) on which movable contacts (34) contacting and leaving the fixed contacts (32) are formed; and a driving block (2) that drives the movable contactor (35). Moreover, it is made possible to extinguish arcs, which are generated in an event where the contacts contact and leave each other, by arranging permanent magnets (46) on a periphery of the contact block (3). Then, at least one fixed terminal (33) among the plurality of fixed terminals (33) is formed so that the fixed contact (32) and the movable contact (34) can abut against each other in a region other than a side opposite to the other fixed terminal (33).

IPC 8 full level

H01H 1/06 (2006.01); **H01H 1/20** (2006.01); **H01H 9/44** (2006.01); **H01H 50/54** (2006.01)

CPC (source: CN EP KR US)

H01H 1/06 (2013.01 - EP KR US); **H01H 1/2083** (2013.01 - KR); **H01H 9/443** (2013.01 - CN EP KR US); **H01H 50/546** (2013.01 - CN EP KR US); **H01H 50/64** (2013.01 - KR US); **H01H 1/2083** (2013.01 - CN EP US); **H01H 2050/025** (2013.01 - EP KR US); **H01H 2201/022** (2013.01 - KR US)

Citation (search report)

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- [X] US 2009096559 A1 20090416 - YANO KEISUKE [JP], et al
- [XA] WO 2011115056 A1 20110922 - OMRON TATEISI ELECTRONICS CO [JP], et al
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CN107170648A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2871661 A1 20150513; **EP 2871661 A4 20150722**; **EP 2871661 B1 20170503**; CN 104412353 A 20150311; CN 104412353 B 20170308; JP 2014017086 A 20140130; JP 5938745 B2 20160622; KR 20150028803 A 20150316; US 2015194284 A1 20150709; US 9881758 B2 20180130; WO 2014006871 A1 20140109

DOCDB simple family (application)

EP 13812568 A 20130701; CN 201380035632 A 20130701; JP 2012152663 A 20120706; JP 2013004068 W 20130701; KR 20157000151 A 20130701; US 201314412946 A 20130701